Confined Space Entry (CSE) Program and Program Flow Chart for Non-Permit CSE.

PAGE 1 / 2

- **Is the space:**
  1. Large enough and configured, so that an employee can bodily enter and perform assigned work, and is
  2. Limited or has restricted access for entry or exit, and is
  3. Not designed for continuous occupancy?

  - **No**
    - Not a Confined Space. Consider hazards that are present and consult with EH&S to determine what hazard controls might be put in place prior to safe entry.

  - **Yes**
    - **Does the space:**
      1. Contain or have a potential to contain a hazardous atmosphere, or
      2. Contain a material that has the potential for engulfing an entrant, or
      3. Have an internal configuration such that an entrant could be trapped or asphyxiated by an inwardly converging wall or by a floor which slopes downward and tapers to a smaller cross-section, or
      4. Contain any other known serious safety or health hazard?

      - **No**
        - Space does not contain (or, with respect to atmospheric hazards, have the potential to contain) any hazard capable of causing death or serious physical harm.

      - **Yes**
        - This is a **Permit-Required Confined Space**. Apply Procedure from Section 2 of UCB's CSE General Program.
          - Go to letter “A”, page 2 / 2 of this flowchart.

        - UCB Personnel must have been trained according to Parts III, IV, V and VI of this Confined Space Program prior to entry and work activity commencing. Entry Supervisor must check training records to assure compliance.

        - Search for potential air contamination sources outside of the space. Lock out or otherwise remove potential contamination sources outside of space prior to testing atmosphere inside the space.

        - Contractors
          - Contractor requests, and UCB informs the contractor of, the CSE hazards UCB has knowledge of that are inside the space and the controls that are used.

          - UCB confirms contractor has a CSE program and conducts CSE under their program’s guidance. Contractor provides UCB Entry Supervisor or Host Department with training records of all personnel who are involved in CSE.

          - UCB CSE team and contractor’s CSE team working in the same space coordinate activities to assure both have adequate personnel, equipment, emergency and a communication plans within each team and between the teams to assure safe work.

          - Means of communication between all entrants, attendant, and potential emergency rescuers must be available during entire Confined Space Entry.

          - Enter Confined Space to complete the work.

        - UCB Employees
          - Isolate the space and prevent unauthorized entry into the space by anyone who is not trained in Confined Space Entry procedures.

          - Search for potential air contamination sources outside of the space. Lock out or otherwise remove potential contamination sources outside of space prior to testing atmosphere inside the space.

          - On the Confined-Space Evaluation / Entry Form (Appendix C), define the scope of work requiring entry.

          - Use appropriate PPE if corrosive materials or topically absorbed materials are present in the space. Check building / space history with applicable department.

          - Ensure safe access to and egress from the space.

          - If new hazards are detected upon entry to the space, all personnel shall exit immediately. Do not re-enter until the new hazards are evaluated and controlled. Document all new hazard evaluations by completing another Confined Space entry form (Appendix C).

          - Air quality **MUST** be assured for the duration of the job. Minimum of two (2) persons (1 or more Entrant(s) & 1-Attendant) work as a team during Confined Space Entry.

          - Air sampling for oxygen content, flammable gases and vapors, and potential toxic air contaminants are continuously monitored throughout the duration of the confined space entry using a recently calibrated meter.

          - Enter Confined Space to complete the work.

          - Secure the space from unauthorized entry upon completion of work.

          - Start this process over at the beginning of each work day or shift. – END.
This is a Permit-Required Confined Space because it is:
1. Large enough and configured so that an employee can bodily enter and perform assigned work, and is
2. Limited or has restricted access for entry or exit, and is
3. Not designed for continuous occupancy. Apply Procedure from Section 2 of UCB’s CSE Program.

In addition, the space contains one or more of the following hazards:
1. Has a potential to contain a hazardous atmosphere, or
2. A material that has the potential for engulfing an entrant, or
3. An internal configuration such that an entrant could be trapped or asphyxiated by an inwardly converging wall or by a floor which slopes downward and tapers to a smaller cross-section, or
4. Any other known serious safety or health hazard?

UCB Personnel must have been trained on Parts II, IV, V and VI of this Confined Space Program prior to entry and work activity commencing.

Entry Supervisor completes the Confined Space Entry Permit (Appendix D) by:
- Documenting the Scope of the Project
- Determining who will be entrant(s).
- Determine who will be attendant(s).
- Determine who will be atmospheric monitor(s).
- Determine who will be rescue personnel.
- Conducting atmospheric testing using recently calibrated 4-gas meter prior to entry.
- Ventilate as necessary and document retesting.
- Assessing hazards both inside and outside of the confined space.
- Implementing hazard controls as need dictates prior to entry.

Isolate the space from unauthorized entry by anyone who is not trained in Confined Space Entry procedures. If no UCB employees enter space – END.

Entry Supervisor assures all CSE participants have training required and are up to date according to the CSE Program Training requirements noted in Section V of the CSE Program. Obtain current certificates of training completion, including rescuer’s training, and have them available during the entire job.

Search for potential air contamination sources outside of the space. Lock out or otherwise remove potential contamination sources outside of space prior to testing atmosphere inside the space.

Air test and ventilate space and provide continuous air monitoring with freshly calibrated meter during work.

Ensure safe access to and egress from the space.

If flammable gas or oxygen enrichment is suspected, ignition sources are prohibited. Explosion proof electrical equipment, low voltage lighting, and / or no-spark tools must be used.

Use appropriate PPE if corrosive materials or topically absorbed materials are present in the space – check history with applicable department.

Enter Confined Space and complete the work.

Enter supervisor debriefs entrants upon exit and documents lessons learned at the end of each shift.

UCB confirms contractor has a CSE program and conducts CSE under their program’s guidance. Contractor provides UCB Entry Supervisor or Host Department with training records of all personnel who are involved in CSE at a specific location.

UCB CSE team and contractor’s CSE team working in the same space coordinate activities to assure both have adequate personnel, equipment, emergency plan and a communication plan within each team and between the teams to assure safe work.

Entry Supervisor / Host Department is project manager when working with contractor and oversees contractor’s work and compliance with CSE Program including all remaining program parts.